

Serice News

At this time, we would like to explain the daily blower.



Role of Blower

Impurities and chemicals in the supply water are accumulated in the boiler as operation, solution salts concentration and suspension in the boiler water is increasing gradually. Those concentration increasing in the boiler water intends to cause foaming and carry over only. Corrosion component increasing causes the corrosion of tube materials, the sludge deposit and accumulation causes some damages such as the scale, over heating or circulating inferior parts clogging. Blower in the boiler water is carried out to prevent those damages, discharge the condensed boiler water outside the boiler, and control the boiler water concentration within the regular value.

As the boiler operation, we normally recommend to carry out surface blower, boiler bottom blower, full blower, and water level detection tube blower periodically.

< Type and Role >

1. Surface Blower: Water treatment of boiler water (PH control, Condensed control) and etc.
2. Boiler Bottom Blower: Water treatment of boiler water (PH control, Condensed control), Sludge discharge and etc.
3. Full Blower: Water treatment of boiler water (Unnecessary article discharge), Boiler bottom accumulated article discharge and etc.
4. Water Level Detection Tube Blower: Water treatment inside water level detection tube (PH control, Condensed control), Sludge discharge and etc.

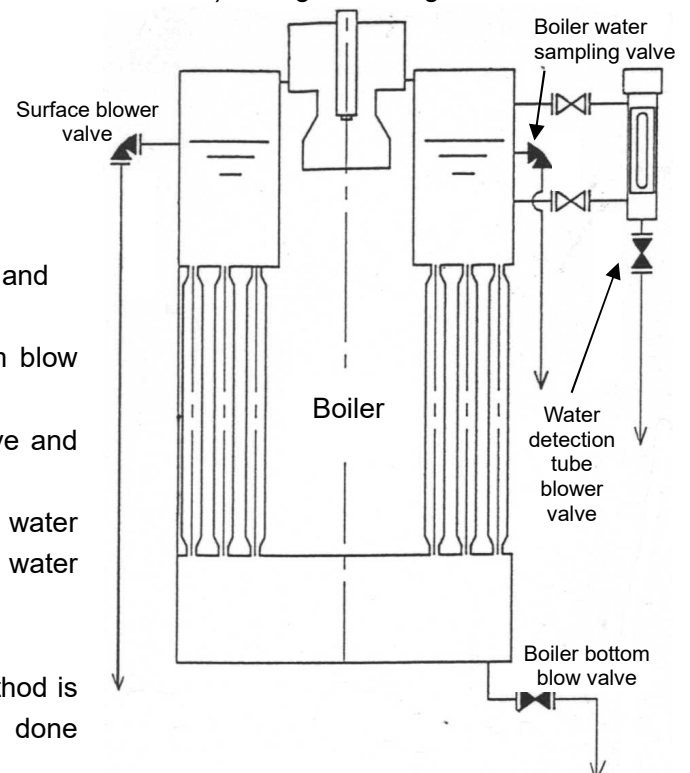
< Frequency >

1. Surface Blower: Daily
2. Boiler Bottom Blower: Daily
3. Full Blower: If necessary
4. Water Level Detection Tube Blower: Daily

< Method >

1. Surface Blower: Open the surface blower valve and blow some boiler water.
2. Boiler Bottom Blower: Open the boiler bottom blow valve and blow some boiler water.
3. Full Blower: Open the boiler bottom blow valve and blow all of boiler water
4. Water Level Detection Tube Blower: Open the water detection tube blower valve and blow all of boiler water in the tube.

Moreover the above mentioned frequency and method is the standard. The adjustment is required to be done according to the boiler water quality.



What is happen if blower is not at all carried out !?

1. If the chemicals are injected, PH increasing causes the alkaline corrosion.
2. Condensed solution salts and suspension in the boiler water cause the carry-over.
3. Carry-over may cause low water level frequently.
4. In case of the hardness leakage, the scale adhesion increases drastically.
5. The scale adhesion may cause over-heat locally.
6. The sludge and peeled-off scale cause the water tube and valve clogging.

What is happen if blower increases in quantity and blower is frequent extremely !?

1. PH does not increase and makes progress of corrosion because of no condensed.
2. The loss such as calorific value (Chemical fee, Water fee, Oil fee and etc.) increases.

We know that the surface blower, boiler bottom blower, full blower are carried out periodically on almost of the ship, but we are afraid that water level detection tube blower may be careless.

If the water level detection tube blower is not carried out, it does not affect the water tubes, but, some damages such as water level detection tube corrosion, scale adhesion on the detection rod are caused.

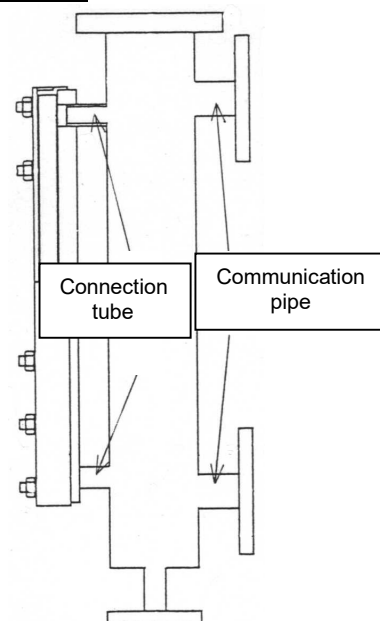
What is happen if the water level detection tube blower is not at all carried out !?

1. The connection tube, communication pipe and valve are clogged.
2. The water level detection tube corrosion is easy to be caused.

If the communication pipe is clogged up, there are differences between water level in the water level detection tube and in the water tube, the normal control of water supply cannot be done.

3. The connection tube is clogged up,
the actual water level cannot be checked out.

Therefore, it is very important that the periodical and proper blower control is carried out, moreover, it extends the life of the boiler water tube and brings about saving energy.



Scan the QR code or click on the following URL for information about our service network.

<https://www.miuraz.co.jp/en/marine/service/network.html>



If you have any questions, please contact nearest MIURA's office.

We hope to receive your continuous support in the future.